

PROTOCOL
OF THE RESULTS OF THE VISIT OF PROF. R.L. KATHREN,
PROF. J.J. RUSSELL, PROF. R.E. FILIPY
TO THE FIRST INSTITUTE OF BIOPHYSICS
AUGUST 31, 1998 THROUGH SEPTEMBER 6, 1998

INTRODUCTION

In consonance with the Agreement Between the Government of the Russian Federation and the Government of the United States of America on Cooperation in Research on Radiation Effects for the Purpose of Minimizing the Consequences of Radioactive Contamination on Health and the Environment the visit of the American scientists to the First Institute of Biophysics (FIB-1) took place.

The American team consisted of Prof. R.L. Kathren, Prof. R.E. Filipy and Prof. J.J. Russell. The Russian team at FIB-1 consisted of participants for DOE-029 project "Establishment of a repository containing tissues and organs of deceased workers of the Mayak Industrial Association who were exposed to actinide elements", specifically Drs. Klara N. Muksinova, Eduard R. Lyubchansky, Evgenia N. Kirillova, Valentina S. Revina and Mikhail Sokolnikov.

PURPOSE

The purpose of the visit was the initial discussion of Phase I Tasks, including primarily consideration of the means of conducting the project, and also resolving questions pertaining to scientific and professional collaboration between the American and Russian project participants.

RESULTS

As the result of the meeting the sides have agreed that

1. An open and cooperative scientific and professional relationship has been established between the American and Russian teams.
2. Agreement has been reached on all major issues with respect to carrying out the proposed work.
3. The FIB-1 has an extensive collection of formalin fixed tissues from 450 deceased workers of the Mayak Industrial Association which serves as the

Russian Human Radiobiology Tissue Repository (RHRTR) FIB-1 and is the Russian equivalent to the U.S. National Human Radiobiology Tissue Repository.

4. During Phase I, a detailed inventory of tissue samples ~~for 150 donors~~ will be made and combined with detailed dosimetric and medical information for each donor.
5. Early in the year, a member of the Russian team at FIB-1 will visit the USTUR to observe USTUR operation of a human radiobiology tissue repository containing tissues, organs, histopathology blocks and slides, and related tissue materials; this visit is planned for the first quarter of calendar year 1999.
6. The RHRTR has an urgent immediate need for at least one computer and appropriate software to accomplish Item 4 above, as well as to facilitate the other tasks and to establish compatibility with the U.S. NHRTR.

FUTURE PLANS AND MILESTONES

In addition to the items presented under Results above, the following future plans and milestones for the initial year of the project (Phase I) have been agreed :

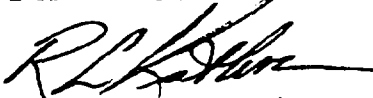
1. The initial equipment needs of the RHRTR will be determined and a detailed listing of these items along with costs developed. This will be accomplished by December 31, 1998.
2. Develop policies and protocols for the collection, packaging, preservation, storage and distribution of tissues, blocks, slides, and other materials in accordance with the legal and bioethical requirements of both countries. This will be accomplished in phases; a preliminary outline of the policies and protocols to be developed will be prepared by December 31, 1998.
3. In conjunction with the other DOE sponsored project participants, develop protocols and project plans to ensure that these projects receive tissues, blocks, and slides necessary for the conduct of their research, in consonance with human subjects and legal requirements, and will be fully integrated with Item 2 above. It is anticipated that this will be accomplished by March 15, 1999.

4. The participants will provide to the DOE quarterly progress reports commencing December 15, 1998.
5. The participants of meeting from U.S. and Russian sides have discussed the feasibilities of conducting the long-term project and Phase II Tasks. Elaboration of the long-term project will be made by U.S. and Russian participants conjointly during Phase I. The long-term project plan in the form of a final detailed technical proposal and budget will be prepared and offered to DOE by August 15, 1999. A preliminary draft will be submitted to the DOE for comment by May 15, 1999.

Dated the fourth of September, 1998, at Ozersk

SIGNATURES

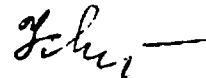
For the United States



Ronald L. Kathren

Professor and Director, USTUR

For the Russian Federation



Klara N. Muksinova

Dr.Sci. of Med.